

105101 02H0000



FIG. 1

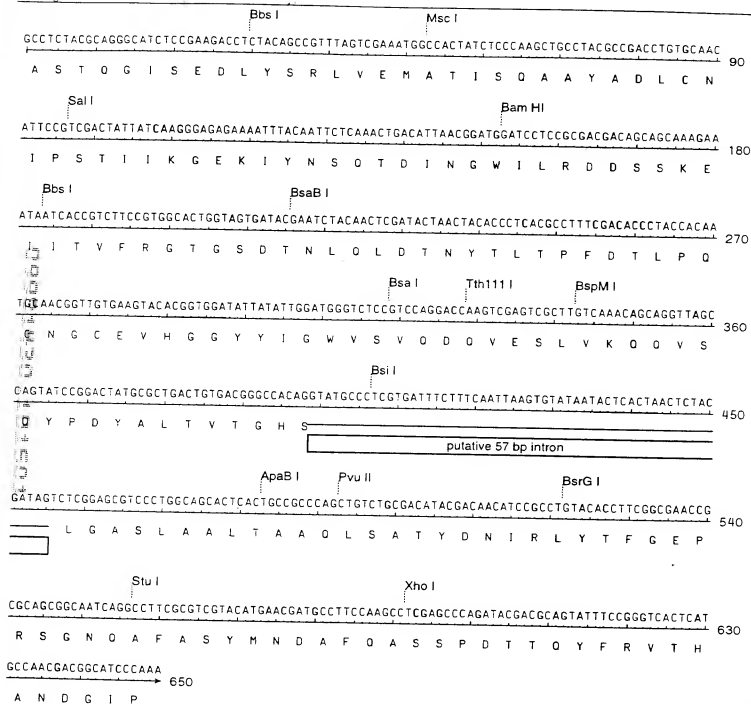
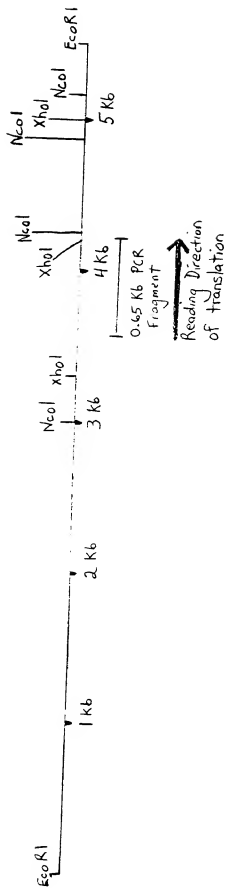


FIG. 2

POSITION TO LEFT

FIG. 3



5.5 Kb EcoRI Fragment cloned into pLITMUS 28 *E. coli* plasmid

FIG. 4

Nco I      EcoR V      Psp1406 I  
 CCATGGTGGTGTGATATCGGCAGTAGTCTTTGCCGAACGTTGAGGGTTACAGTGAATCGCGTGGACATCTTCGGGGAATCTACGGC 90  
 GGAATATCAAAGTCTTCGGAATATCCATATTGGGAAAGGACAGAAGCTCCGGGGTAGTTTGATAGATGAGCTCCGGTGATTAAATCGGG 180  
 AGCTGACAGGAGTGAGCGTCATGTAGACCATCTAGTAATGTCAGTCGCGCGCAATTTGCACATGAACAAAGTTGATTTCGGGACCCCAT 270  
 TGTACATCTCTCGGCTACAGCTCGAGATGTGCTTGCCTGCCGAGTACTTAGAAGCCATGCCAGCGTGTGTTATACGACCAAAAGTCAGG 360  
 AATATGAAACGATCGTCGGATATTTCTTGTGTTTTATCTCAAATTAGTCTTCCAGTGGTTTATTTAAGAGATAGATCCCTTCACAAACT 450  
 CATCCAACGGACTTCTCATACCACTCATTGACATAATTTCAACAGCTCCAGGCGCAATTTAGTTCAACATGAAGCAATTTCCGCGCAAC 540  
 signal sequence  
 M K Q F S A K  
 Pst I      Bpu10 I  
 ACGTCTCTCGAGTTGTGGTGACTGCAGGGCACGCTTAGCAGCCTCTACGCAAGGCATCTCCGAAGACCTCTACAGCGTTTAGTCGAAA 630  
 signal sequence  
 H V L A V V V T A G H A L A A S T O G I S E D L Y S R L V E  
 Msc I      Sal I  
 TGGCCACTATCTCCCAAGCTGCCTACGCCACCTGTGCAACATTCGGTCGACTATTATCAAGGGAGAGAAAATTTACAATTTCTCAAAC 720  
 M A T I S Q A A Y A D L C N I P S T I I K G E K I Y N S O T  
 BamH I      BsaB I  
 ACATTAACGGATGGATCTCTCCGCGACGACAGCAGCAAGAAATAATCACCCTCTTCGGTGGCACTGGTAGTGATACGAATCTACAAC 810  
 D I N G W I L R D D S S K E I I T V F R G T G S D T N L O L  
 Eco31 I  
 ATACTAACTACACCCTCAGCCCTTTCGACACCTACCAATGCAACGGTTGTGAAGTACACGGTGGATATTATATTGGATGGGTCTCCG 900  
 D T N Y T L T P F D T L P Q C N G C E V H G G Y Y I G W V S

Fig. 5A



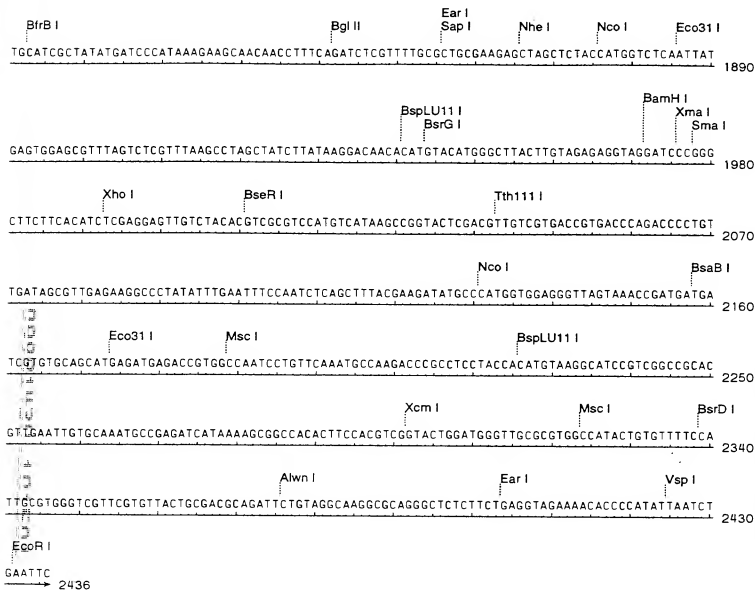


Fig.

5C

Figure 6 (SEQ.ID NO:29)

CCATGGTGGTGTGCATATCGGCAGTAGTCTTTGCCGAAACGTTGAGGGTTACAGTGATCTGCGTCGGACATACTT  
CGGGGAATCTACGGCGGAATATCAAAGTCTTCGGAATATCCATATTGGGAAAGGACAGAAGCTCCGGGGTAGTTT  
GATAGATGAGCTCCGGTGTATTAATCGGGAGCTGACAGGAGTGAGCGCTCATGTAGACCATTAGTAATGTCACT  
CGCGCGCAATTTCCGACATGAAACAAGTTGATTTCGGGACCCCATTTGTTACATCTCTCGGCTACAGCTCGAGATG  
TGCTGCCGAGTATACCTTAGAAGCCATGCCAGCGGTGTTGTTATACGACCAAAAGTCAGGGAATATGAAACGATCG  
TCGGATATTCTTGTTTTATCCTAAATAGTCTTCCAGTGGTTATTTAAGAGATAGATCCCTTCACAAACACT  
CATCCACGGAAGTCTCATACCACTCATTGACATAATTTCAAACAGCTCCAGGCGCATTTAGTTCAACATGAAGC  
AATTCTCCGCAAAACACGTCCTCGCAGTTGTGGTGACTGCGAGGGCAGCGCTTAGCAGCCTCTACGCAAGGCATCT  
CCGAAGACCTCTACAGCGGTTTAGTCGAAATGGCCACTATCTCCCAAGCTGCCTACGCCGACCTGTGCAACATTC  
CGTGACATATTATCAAGGGAGAGAAAATTTCAATTTCTCAAACCTGACATTAACGGATGGATCCTCCGCGACGACA  
GCAGCAAAAGAAATATCACCGTCTTCCGTGGCACTGGTAGTGATACGAATCTCAAACTCGATACCTAACTACACCC  
TCACGCTTTTCGACACCCCTACCACAATGCAACGGTTGTGAAGTACACGGTGGATATTATATTGGATGGGTCTCCG  
TCCAGGACCAAGTCGAGTCGCTTGTCAAACAGCAGGTTAGCCAGTATCCGCACTATCCGCTGACTGTGACGGGCC  
ACAGGTATGCCCTCGTGATTTCTTCAATTAAGTGTATTAATCTCACTAATCTACGATAGTCTCGGAGCGTCCC  
TGGCAGCACTCACTGCCGCCAGCTGTCTGCGACATACGACAACATCCGCTGTACACCTTCGGGCAACCGCGCA  
GGCGCAATCAGGCTTCGCGTCTGATACGATGAACGATGCCCTTCCAAGCCTCGAGCCAGATACGACGCAATTTTCC  
GGGTCACTCATGCCAACGACGGCATCCCAACCTGCCCGGTTGGAGCAGGGGTACGCCCATGGCGGTGTAGAGT  
ACTGGAGCGTTGATCCTTACAGCGCCCAAGAACATTTGTCTGCACTGGGGATGAAGTGCACTGCTGTGAGGCCC  
AGGGCGGACAGGGTGTGAATATGCGCACACGACTTATTTGGGATGACGAGCGGAGCCTGTACATGGTGATCAG  
TCATTTACGCTCCCCGAGTGTACAGGAAGATGGATGTCTGTGAGAGGGCATGCATGTACGTATACCCGAAGC  
ACACTTTTTCGGTAATCAGGACATGTAATAGTTCCTTCCATGAATAGATATGTTTACCTCACCATAAGCCTT  
GAGGTTGCCTTTCTCTTTTGTATGTAATATATTTAAAGTACATGACAGATATCTCTAAACACCTTATCCGCT  
TAAACCCATCATAGATGTGTCACTGATAGACCCCTTGAATGATGAGCGAAATGTATCAGTCCCGTTTAAATCA  
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TGCATCGCTATATCAATCCCAAAAGCAACCAACCTTTCAGATCTGCTTTTTCGCTGCGAAGAGCTAGCTTAC  
CATGGTCTCAATTATGAGTGGAGCGTTTAGTCTCGTTTAAAGCCTAGCTATCTTATAAGGACAACACATGTACATG  
GGCTTACTTTAGTAGAGAGTAGGATCCCGGGCTTCTTCACTCTGAGGAGTTGTCTACAGTCCGCTCCATGTCA  
TAAAGCGGTACTCGACGTTGTGCTGACCGTGACCCAGACCCCTGTTGATAGCGTTGAGAAGGCCCTATATTGAA  
TTTCCAATCTCAGCTTTACGAAGATATGCCATGGTGGAGGTTAGTAAACCGATGATGATCGTGTGCGACATGA  
GATGAGACCGTGGCCAAATCTGTTCAAATGCCAAGACCCGCTCTACACATGTAAAGCATCCGTGCGCGCGCAC  
GTTGAATTTGTGCAAAATGCCGAGATATAAAAGCGGCCACACTTCCAGTCGGTACTGGATGGGTGCGCGTGGCC  
ATACTGTGTTTTCCATTTGCGTGGGTGCTTGTGTTACTGCGACCGGAGTTCTAGTGGCAAGGCGCAGGGCTCTCT  
TCTGAGGTAGAAAAACCCCATTAATCTGAATTC



3F 9/26/77 cell 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14



Fig. 7

BB426/9: Gel 2

15 16 17 18 19 20 21 22 23 24 25 26 27 28

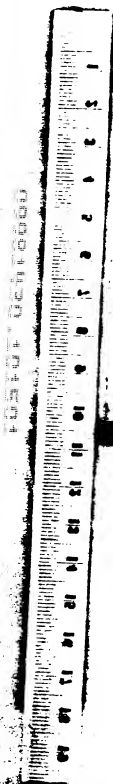


Fig. 8